

## ER-2 #809 11/24/15

**Aircraft:** [ER-2 - AFRC #809](#) ([See full schedule](#))

**Flight Number:** 16-9020

**Payload Configuration:** AMPR, CPL, CRS, eMAS, HIWRAP, AirMSPI-1

**Nav Data Collected:** Yes

**Total Flight Time:** 7.1 hours

**Comments:** Purpose: DC-8/ER-2 Combined Overland Snowfall and Postfrontal Precipitation. Comments: Flight 16-9020 was the third science mission from KTCM with AMPR, CPL, eMAS, HIWRAP and AirMSPI-1. Flight 16-9020 took off on time from KTCM at 0708 local and landed in KTCM at 1416 local (7.1 hours). Tim Williams was the pilot. The ER-2 and DC-8 flew a combined sortie today observing the final portions of a front moving through the interest area. The front moved a bit faster than initially expected. The DC-8 was on station early and followed by the ER-2 approximately 1 hour later. The first objective was to image snowfall over the Olympic Mountain Range. The secondary objective was observing post frontal convection and calibration runs over the water. All objectives were met. HIWRAP and CRS had an overheat condition in flight. The pilot ran failure checklist which cleared the faults and instruments performed normally for the remainder of the mission. It was reported during debrief the eMAS sensor was losing vacuum during the flight which may have impacted data collected. Post-flight data processing will required to determine the amount of data loss, if any.

**Submitted by:** Brian Hobbs on 11/25/15

### Flight Segments:

<b>From:</b>	TCM	<b>To:</b>	TCM
<b>Date:</b>	11/24/15		
<b>Flight Time:</b>	7.1 hours		
<b>Log Number:</b>	<a href="#">162003</a>	<b>PI:</b>	David Starr
<b>Funding Source:</b>	Hal Maring - NASA - SMD - ESD Radiation Science Program		
<b>Purpose of Flight:</b>	Science		

### Flight Hour Summary:

	<b>162003</b>
<b>Flight Hours Approved in SOFRS</b>	70
<b>Total Used</b>	70
<b>Total Remaining</b>	0

### 162003 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
<a href="#">11/10/15</a>	16-9016	Check	2.3	2.3	67.7	
<a href="#">11/16/15</a>	16-9017	Transit	2.7	5	65	
<a href="#">11/18/15</a>	16-9018	Science	6.6	11.6	58.4	
<a href="#">11/23/15</a>	16-9019	Science	8.2	19.8	50.2	
<a href="#">11/24/15</a>	16-9020	Science	7.1	26.9	43.1	
<a href="#">12/01/15 - 12/02/15</a>	16-9021	Science	5.1	32	38	
<a href="#">12/03/15</a>	16-9022	Science	3.4	35.4	34.6	
<a href="#">12/04/15</a>	16-9023	Science	7	42.4	27.6	
<a href="#">12/05/15</a>	16-9024	Science	4	46.4	23.6	
<a href="#">12/08/15 - 12/09/15</a>	16-9025	Science	3	49.4	20.6	
<a href="#">12/10/15</a>	16-9026	Science	5.8	55.2	14.8	
<a href="#">12/12/15</a>	16-9027	Science	4.1	59.3	10.7	
<a href="#">12/13/15 - 12/14/15</a>	16-9028	Science	8	67.3	2.7	
<a href="#">12/15/15</a>	16-9029	Ferry	2.7	70	0	

*Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.*

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